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SUITE 2150	MIS STREET		ART UNIT	PAPER NUMBER
CHICAGO,	IL 60606		3636	

DATE MAILED: 10/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner			Ар	plication No.	Applicant(s)						
Stephen D'Adamo The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Editations of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SX (6) MONTHS from the mailing date of this communication. If the pariod for reply specified above, a large time (20) days, a reply within the statutory minimum of thing (30) days, will be considered timely. If the pariod for reply specified above, a large time (20) days, a reply within the statutory minimum of thing (30) days, will be considered timely. If the pariod for reply specified above, a large time (20) days, a reply within the statutory minimum of thing (30) days, will be considered timely. If the pariod for reply specified above, a large time (20) days and the statutory minimum of thing (30) days will be considered timely. If the pariod for reply specified above, a large time (20) days will be considered timely. If the pariod for reply specified above a large time (20) days are ply within the statutory minimum of thing (30) days will be considered timely. If the pariod for reply specified above a large time (20) days are ply within the statutory minimum of thing (30) days will be considered timely. Any reply received by the Cities of the statutory minimum of thing (30) days will be considered timely. Any reply received by the Cities the three means after the mailing date of this communication. The pariod timely is specified above, and the mailing date of this communication, even if timely filed, may reduce any search of the mailing date of this communication, even if timely filed, may reduce any search days and			10	/612,430	LARDAIS ET AL	<i>d</i>)					
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Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/29/2003. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Other:	1) X Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449 or		Par 5) 🔲 Not	per No(s)/Mail Date iice of Informal Patent Application (F	PTO-152)					

Application/Control Number: 10/612,430

Art Unit: 3636

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Throughout the claims, several phrases are used, such as "a certain amount of play" (claim 1, line 43), which renders the claim indefinite because the limitations are unclear. Claim 1 recites three locking members having a second set of teeth cooperating with the first set of teeth on the cheek plate. Claim 8 is dependent on claim 1 and recites a slug carrier 55 and a slug 56 cooperating with the first set of teeth. It is confusing and unclear how the locking plates *and* slugs cooperate with the first set of teeth on the cheek plate. Clarification is needed. As understood, the slug replaces the locking member.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 10 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ganot et al. (6,095,608) in view of Pipon et al. (4,770,464).

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Ganot discloses a "vehicle seta fitted with a hinge mechanism" comprising a seat back 4 and a seat proper 2 mounted in a pivotal relationship. Each side of the vehicle seat includes first and second hinges 5 and 6 "which are respectively controlled by handles 7 and 8 and which are connected to each other by a link 9 extending horizontally and transversely relative to the seat" (col.6, lines 53-56). Each hinge comprises a first cheek plate 10, 11 secured to the seat proper and a second cheek plate 12, 13 secured to the seat back. The second cheek plate 12, 13 provides a first set of teeth 30, 31 centered on the pivot axis. Further, a plurality (3) of locking members 26, 27 on each hinge are provided with a second set of teeth 28, 29 having an angular pitch identical to that of the cheek plate. The locking members are mounted to move in a substantially radial direction between an active position where the two sets of teeth are in engagement with one another and a retracted position where the two sets of teeth do not cooperate with tone another. However, Ganot fails to teach of circumferential movement of the locking members in one of the hinges. Yet, Pipon discloses "articulation members for back portions of vehicle seats." The articulation members comprise of a tooth ring 1 and three bearing plates 3, 4, 5 with toothed surfaces having the same pitch as the toothed ring. Further, Pipon discloses a certain amount of play in the bearing plates or locking members in a circumferential direction. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify one of the hinge mechanisms of Ganot with Pipon's articulation member, for providing "a compensation in play" of the reclining mechanism.

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Regarding claim 2, Pipon discloses the minimum angle between the two positions of the back portion is equal to the angular pitch of one tooth. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the compensation in play of the articulation member twice that of one tooth, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

In regards to claims 3-5 Ganot and Pipon disclose guides for guiding the bearing plates or locking members into and out of engagement with the first set of teeth on the cheek plate. Therefore, when the locking members are in the retracted position, they are all in an identical position, relative to the first cheek plate. Moreover, the hinge of Pipon includes the sectors or guides 16, 17, 18 in which the locking members or bearing plates can bear against in the active position. Furthermore, with regards to claim 6, Pipon discloses intermediary parts 22, 23, 24. The intermediary parts ensure a wedging position for the bearing plates 13, 14, 15. Note, Figure 6 of Pipon discloses bearing edges 14b and 15a of the bearing plates or locking members for respective wedges with the set of teeth on each bearing plate.

Regarding claim 8, Pipon discloses slug carriers 22, 23, 24 mounted to slide radially between two guides 16, 17, 18. The slug carriers cooperate to with the control device and connect to a slug or bearing members 13, 14, 15, which engages with the first set of teeth on the cheek plate.

Regarding claim 10, Ganot teaches of a rotary cam, which is urged towards a rest position in which the cam places the locking members in the active/engaging position.

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Further, the control plate 43 is secured to the cam and includes cutouts 45 adapted to cooperate with pegs provided on each locking member.

In regards to claim 13, Ganot teaches of a lost-motion mechanical coupling which interconnects the control devices of the first and second hinges.

Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ganot et al. (6,095,608) in view of Pipon et al. (4,770,464) and in further view of Cilliere et al. (6,561,585).

Ganot discloses a "vehicle seta fitted with a hinge mechanism" comprising a seat back 4 and a seat proper 2 mounted in a pivotal relationship. Each side of the vehicle seat includes first and second hinges 5 and 6 "which are respectively controlled by handles 7 and 8 and which are connected to each other by a link 9 extending horizontally and transversely relative to the seat" (col.6, lines 53-56). Each hinge comprises a first cheek plate 10, 11 secured to the seat proper and a second cheek plate 12, 13 secured to the seat back. The second cheek plate 12, 13 provides a first set of teeth 30, 31 centered on the pivot axis. Further, a plurality (3) of locking members 26, 27 on each hinge are provided with a second set of teeth 28, 29 having an angular pitch identical to that of the cheek plate. The locking members are mounted to move in a substantially radial direction between an active position where the two sets of teeth are in engagement with one another and a retracted position where the two sets of teeth do not cooperate with tone another. However, Ganot fails to teach of circumferential movement of the locking members in one of the hinges. Yet, Pipon discloses "articulation members for back portions of vehicle seats." The articulation members comprise of a tooth ring 1 and three Application/Control Number: 10/612,430

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bearing plates 3, 4, 5 with toothed surfaces having the same pitch as the toothed ring. Further, Pipon discloses a certain amount of play in the bearing plates or locking members in a circumferential direction. Pipon fails to further teach of springs and a control plate on the articulation members. Yet, Cilliere teaches the conventionality of utilizing both springs and a control plate as claimed. Cilliere teaches of similar articulation members as taught by Pipon and also including springs 27, which urge the locking members to an active position. Moreover, Cilliere discloses a control plate 118 having cutouts 119 adapted to cooperate with projecting pegs provided in the locking members. The cutout has a ramp-shaped cam edge, as seen in Figure 13, which is adapted to hold the corresponding locking member in the active position when the control plate is in the rest position. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Ganot and Pipon with springs and an additional control plate, as taught by Cilliere, for providing a stronger engagement between the two sets of teeth.

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Allowable Subject Matter

3. Claim 9 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rohee et al. (6,328,383) and Pipon et al. (JP 1,104,201) both show various features of the claimed invention.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen D'Adamo whose telephone number is 703-305-8173. The examiner can normally be reached on Monday-Thursday 6:00-3:30, 2nd Friday 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pete Cuomo can be reached on 703-308-0827. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 22, 2004

Technology Center 3600